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than any which the writer has elsewhere seen, but also to present that theorem, and many others analogous thereto, under a greatly generalized form, deduced from the principle of fluctuation. Functions more general than sines or cosines, yet having some correspondent properties, are introduced throughout; and constants, distinct from the ratio of the circumference to the diameter of a circle, present themselves in connexion therewith. And thus, if the intention of the writer have been in any degree accomplished, it will have been shown, according to the opinion expressed in the remarks prefixed to this paper, that the development of the important principle above referred to gives not only a new clearness, but also (in some respects) a new extension, to this department of science.

DONATIONS.

Memorie dell' Imperiale Regio Istituto del Regno Lombardo-Veneto. Vols. 1-5.

Memorie dell' Istituto Nazionale Italiano. Vol. 1, 4 Parts, vol. 2, 2 Parts.

Maxwell's Narrative of the Prince's Expedition. (1745). Published by the Maitland Club. Presented by John Smith, Esq., Secretary M. C.

Bibliotheca Scoto-Celtica. By John Reid, Esq. Presented by the Author.

Hints for the better Construction of Dwellings for small Farmers, &c. By W. J. Hughes, M. R. I. A. Presented by the Author.